



## MORBIDITY AND MORTALITY WEEKLY REPORT

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Epidemiologic Notes and Reports**Exposure of Patients to Rubella by Medical Personnel — California**

A recent rubella outbreak among physicians and nurses at a large Los Angeles hospital has led to a major effort to determine the susceptibility status of 200 pregnant women exposed to the infected staff.

The suspected index patient, an obstetrical resident, had experienced low-grade fever and rash in February 1978, but his symptoms were not recognized until mid-March as being due to rubella. During March, 2 residents and 2 nurses experienced symptoms that, in retrospect, were compatible with rubella. Two of these cases have been serologically confirmed, and test results for the other 3 cases are pending. All of them worked during the time they were possibly infectious.

At greatest risk were the fetuses of rubella-susceptible women who received prenatal care at the hospital and were pregnant less than 16 weeks. About 200 women were possibly exposed in the first 16 weeks of their pregnancy. All are being advised by telephone or return-receipt letters of their potential exposure and are being asked to make an immediate clinic visit for rubella antibody determinations. Each of these women will be evaluated by rubella HI, CF, and IgM antibody tests. Information about any recent illness and prior rubella tests also will be obtained. Second specimens will be drawn and tested 1 month later. If it appears that infection occurred, counseling will be offered.

As a result of this outbreak, the California Department of Health is recommending that health care personnel in the state, both male and female, likely to be in close contact with pregnant patients should be screened for antibodies to rubella. Rubella vaccine should be given to all susceptibles after precautions are taken with females regarding pregnancy. Such a program must be ongoing because of the high turnover among hospital personnel.

*Reported by the County of Los Angeles Dept of Health Services, J Chin, MD, State Epidemiologist, and R Murray, MPH, California Dept of Health, in the California Morbidity Weekly Report, No. 13, April 1978.*

**Editorial Note:** Ideally, all women of childbearing age should be tested for immunity to rubella. If found susceptible, they should be offered immunization against rubella, following routine precautions to ensure that they are not pregnant and will not become pregnant for 3 months following immunization (1). This is of even greater importance for female personnel working with infants, children, and young adults in health-care settings because such personnel are at increased risk of exposure to rubella infections (2). In New York state, the screening of female hospital employees is required by state law.

This and similar outbreaks emphasize the potential risk of health-care personnel, whether working on hospital wards or in a clinic or other ambulatory settings, transmitting rubella to susceptible patients (3,4). Therefore, the recommendation of the California Department of Health to test for immunity against rubella in all personnel, both male and female, working with pregnant patients merits careful consideration by all health-care providers. Personnel found susceptible should be vaccinated.

Hospital personnel who develop a febrile illness, particularly with rash, should be evaluated promptly to establish the diagnosis and should not be allowed to return to work until they have been found to pose no threat to patients or other personnel.

*Reported by Immunization Div, Bur of State Services, Field Services Div, Hospital Infections Br, Bacterial Diseases Div, Bur of Epidemiology, CDC.*

**References**

1. Public Health Services Advisory Committee on Immunization Practices: Rubella Vaccine. MMWR 26:385, 1977
2. American Academy of Pediatrics: Report of the Committee on Infectious Diseases, 1977. Evanston, Illinois, AAP, 1977
3. Rubella outbreak in a hospital. Colorado Disease Bulletin V (9), March 5, 1977
4. Carne S, Dewhurst CJ, Hurley R: Rubella epidemic in a maternity unit. Br Med J 1:444-446, 1973

**Current Trends****Burn Injuries — New York**

About 6,000 burn-injury deaths occur in the United States each year. To determine the epidemiologic features of burn injuries, CDC contracted with the Burn Injury Control Program in the New York State Department of Health for a retrospective epidemiologic study of such injuries occurring during 1974 and 1975 in upstate New York (i.e., the entire state excluding New York City).

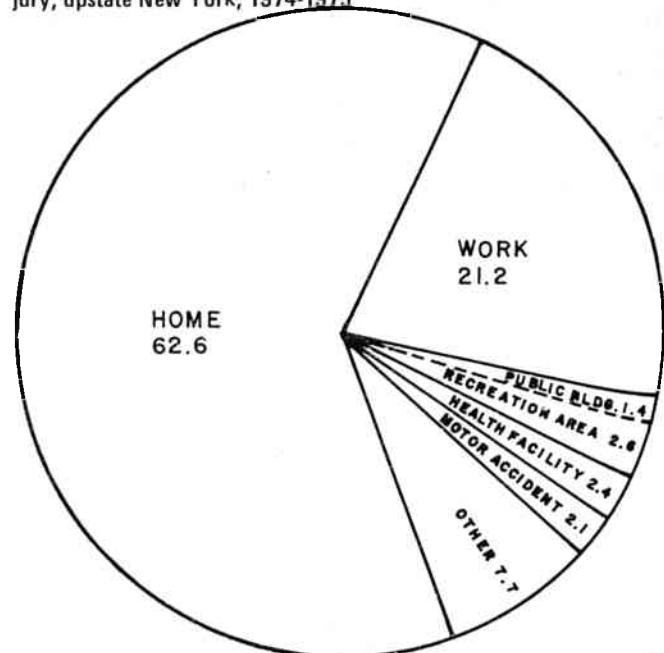
The study found that nearly two-thirds of burn injuries resulting in hospitalization occurred in the home; occupational burn injuries (which are especially amenable to prevention) were second (Figure 1).

For both injuries and deaths, the first decade of life is a period of high risk. Other high-risk periods are the early working years and the years after 50.

Burn injuries severe enough to result in hospitalization occurred at the rate of 27/100,000 population/year in upstate New York. There was a sharp difference between burn rates in rural and urban areas. In New York state the rate in counties outside standard metropolitan statistical areas (SMSAs) was more than 1½ times the rate found in counties within SMSAs.

In terms of years of life lost, burns ranked second in the study only to traffic accidents (37.43 vs 43.43). This reflects the relatively young average age at death for burn victims. (By contrast, the years of life lost by other causes

FIGURE 1. Percentages of hospitalized burn injuries by place of injury, upstate New York, 1974-1975



(Continued on page 129)

**Table I. Summary—Cases of Specified Notifiable Diseases: United States**

(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	14th WEEK ENDING		MEDIAN 1973-1977 ††	CUMULATIVE, FIRST 14 WEEKS		
	April 8, 1978	April 9, 1977 †		April 8, 1978	April 9, 1977 †	MEDIAN 1973-1977 ††
Aseptic meningitis . . . . .	23	31	35	471	4,98	493
Brucellosis . . . . .	1	1	1	33	44	36
Chickenpox . . . . .	4,934	6,593	6,394	55,556	86,246	77,334
Diphtheria . . . . .	4	3	3	25	23	62
Encephalitis { Primary . . . . .	11	11	18	139	168	214
{ Post-Infectious . . . . .	4	8	5	34	35	55
Hepatitis, Viral { Type B . . . . .	248	321	257	3,857	4,248	2,878
Hepatitis, Viral { Type A . . . . .	535	621	711	7,255	8,960	9,739
Hepatitis, Viral { Type unspecified . . . . .	170	197	1	2,299	2,549	1
Malaria . . . . .	9	11	4	116	93	70
Measles (rubeola) . . . . .	848	1,847	1,378	7,697	20,955	10,569
Meningococcal infections, total . . . . .	66	31	31	760	626	477
Civilian . . . . .	66	29	29	751	622	465
Military . . . . .	—	2	1	9	4	11
Mumps . . . . .	423	739	1,633	5,660	8,553	21,383
Pertussis . . . . .	23	14	—	558	196	—
Rubella (German measles) . . . . .	429	925	674	3,642	8,213	4,998
Tetanus . . . . .	—	2	—	10	12	14
Tuberculosis . . . . .	572	607	676	7,406	7,743	7,928
Tularemia . . . . .	1	2	1	17	21	21
Typhoid fever . . . . .	11	11	5	113	93	93
Typhus, tick-borne (Rky. Mt. spotted fever) . . . . .	2	2	2	13	24	13
Venereal Diseases:						
Gonorrhea { Civilian . . . . .	18,998	16,977	18,323	244,543	248,243	248,704
{ Military . . . . .	733	448	480	6,358	7,093	7,829
Syphilis, primary and secondary { Civilian . . . . .	388	339	429	5,399	5,788	6,998
{ Military . . . . .	3	10	9	81	82	88
Rabies in animals . . . . .	77	64	66	673	668	668

**Table II. Notifiable Diseases of Low Frequency: United States**

	CUM.		CUM.
Anthrax: . . . . .	—	Poliomyelitis, total: . . . . .	—
Botulism: . . . . .	4	Paralytic: . . . . .	—
Congenital rubella syndrome: Va. 1, Tex. 1 . . . . .	9	Psittacosis: Calif. 1 . . . . .	29
Leprosy: Utah 1, Calif. 1 . . . . .	25	Rabies in man: . . . . .	—
Leptospirosis: Va. 1, La. 1, Tex. 1, Hawaii 1 . . . . .	11	Trichinosis: . . . . .	11
Plague: . . . . .	—	Typhus, murine: . . . . .	8

†Delayed reports received for calendar year 1977 are used to update last year's weekly and cumulative totals.

†Delayed reports: Polio, para.: Tex. —1, (1977)

††Medians for Gonorrhea and Syphilis are based on data for 1975-1977

**Table III**  
**Cases of Specified Notifiable Diseases: United States**  
**Weeks Ending April 8, 1978 and April 9, 1977 - 14th Week**

AREA REPORTING	ASEPTIC MENIN- GITIS	BRUCEL- LOYSIS	CHICKEN- POX	DIPHTHERIA	ENCEPHALITIS		HEPATITIS, VIRAL			MALARIA			
					Primary: Arthropod- borne and Unspecified	Post In- fectious	Type B	Type A	Type Unspecified				
	1978	1978	1978	1978	CUM. 1978	1978	1977†	1978	1978	1978	1978	CUM. 1978	
UNITED STATES . . . . .	23	1	4,934	4	25	11	11	4	248	535	170	9	116
NEW ENGLAND . . . . .	4	-	514	-	-	1	1	-	1	7	18	-	6
Maine . . . . .	-	-	216	-	-	-	-	-	-	1	-	-	1
New Hampshire . . . . .	1	-	14	-	-	-	-	-	-	-	-	-	1
Vermont . . . . .	-	-	2	-	-	-	-	-	-	1	1	-	-
Massachusetts . . . . .	-	-	136	-	-	1	-	-	-	4	17	-	1
Rhode Island . . . . .	3	-	88	-	-	-	-	-	-	-	-	-	-
Connecticut . . . . .	-	-	58	-	-	-	1	-	1	1	-	-	3
MIDDLE ATLANTIC . . . . .	-	-	262	-	-	3	-	-	40	52	17	-	29
Upstate New York . . . . .	-	-	199	-	-	-	-	-	6	8	1	-	4
New York City . . . . .	-	-	63	-	-	3	-	-	10	13	9	-	14
New Jersey* . . . . .	-	-	NN	-	-	-	-	-	24	31	7	-	4
Pennsylvania . . . . .	NA	NA	NA	NA	-	NA	-	-	NA	NA	NA	NA	7
EAST NORTH CENTRAL . . . . .	2	-	1,832	-	-	1	2	1	49	68	24	-	3
Ohio . . . . .	1	-	59	-	-	-	2	-	3	16	-	-	-
Indiana . . . . .	-	-	238	-	-	1	-	1	1	10	10	-	-
Illinois . . . . .	-	-	569	-	-	-	-	-	18	24	4	-	2
Michigan . . . . .	-	-	591	-	-	-	-	-	22	23	10	-	1
Wisconsin* . . . . .	1	-	375	-	-	-	-	-	5	4	-	-	-
WEST NORTH CENTRAL . . . . .	1	-	870	-	-	-	-	1	11	51	6	2	10
Minnesota . . . . .	-	-	-	-	-	-	-	5	18	-	-	-	2
Iowa . . . . .	-	-	318	-	-	-	-	-	4	2	-	-	-
Missouri* . . . . .	-	-	1	-	-	-	-	-	2	19	4	-	4
North Dakota . . . . .	-	-	4	-	-	-	-	-	-	1	-	-	-
South Dakota . . . . .	-	-	39	-	-	-	-	-	-	-	-	-	-
Nebraska . . . . .	-	-	77	-	-	-	-	-	2	-	-	2	3
Kansas . . . . .	1	-	431	-	-	-	-	1	2	9	-	-	1
SOUTH ATLANTIC . . . . .	4	-	575	-	-	1	2	1	48	60	21	1	20
Delaware . . . . .	-	-	14	-	-	-	-	4	-	-	-	-	1
Maryland . . . . .	-	-	73	-	-	-	-	-	14	8	4	-	6
District of Columbia . . . . .	-	-	2	-	-	-	-	4	-	-	-	-	-
Virginia . . . . .	-	-	23	-	-	1	1	-	5	6	2	1	4
West Virginia* . . . . .	-	-	188	-	-	-	-	-	1	3	-	-	1
North Carolina . . . . .	1	-	NN	-	-	-	1	-	4	6	5	-	-
South Carolina . . . . .	-	-	13	-	-	-	-	-	1	1	2	-	1
Georgia . . . . .	-	-	1	-	-	-	-	-	6	15	-	-	1
Florida* . . . . .	3	-	261	-	-	-	-	1	9	16	8	-	6
EAST SOUTH CENTRAL . . . . .	2	-	113	-	-	1	1	6	8	1	1	1	2
Kentucky . . . . .	-	-	74	-	-	-	1	-	-	-	-	1	1
Tennessee . . . . .	1	-	NN	-	-	-	-	1	4	3	-	-	1
Alabama . . . . .	1	-	19	-	-	-	-	-	2	2	1	-	-
Mississippi . . . . .	-	-	20	-	-	-	-	-	-	3	-	-	-
WEST SOUTH CENTRAL . . . . .	2	1	340	-	1	1	3	-	15	68	25	-	7
Arkansas . . . . .	1	1	8	-	1	-	1	-	2	4	3	-	-
Louisiana . . . . .	-	-	NN	-	-	-	-	-	1	2	1	-	3
Oklahoma . . . . .	1	-	-	-	-	-	-	-	2	1	2	-	-
Texas* . . . . .	-	-	332	-	-	1	2	-	10	61	19	-	4
MOUNTAIN . . . . .	-	-	233	-	1	-	-	-	14	64	16	1	3
Montana . . . . .	-	-	12	-	-	-	-	-	1	4	-	-	-
Idaho . . . . .	-	-	17	-	-	-	-	-	-	3	-	-	-
Wyoming . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado . . . . .	-	-	196	-	-	-	-	-	5	9	3	-	1
New Mexico . . . . .	-	-	-	-	-	-	-	-	2	8	1	-	-
Arizona* . . . . .	-	-	NN	-	-	-	-	4	29	8	-	-	1
Utah . . . . .	-	-	7	-	-	-	-	-	2	11	4	-	-
Nevada . . . . .	-	-	1	-	1	-	-	-	-	-	1	-	1
PACIFIC . . . . .	8	-	195	4	23	4	2	-	64	157	42	4	36
Washington* . . . . .	-	-	151	4	23	-	-	-	1	13	2	-	1
Oregon . . . . .	1	-	2	-	-	-	-	-	4	22	7	-	2
California* . . . . .	6	-	-	-	-	4	2	-	56	119	31	4	31
Alaska . . . . .	-	-	7	-	-	-	-	-	1	2	1	-	-
Hawaii . . . . .	1	-	35	-	-	-	-	-	2	1	1	-	2
Guam* . . . . .	NA	NA	NA	NA	-	NA	-	-	NA	NA	NA	-	-
Puerto Rico . . . . .	2	-	16	-	-	-	-	-	3	5	7	-	2
Virgin Islands . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-

NN: Not notifiable

NA: Not available

\*Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals.

†The following delayed reports will be reflected in next week's cumulative totals: Asep. menig.: N.J. -4, Fla. -1, Wash. -1; Chickenpox: Mo. +191, W. Va. +6, Calif. +15, Guam +11; Enceph.: Wash. +1; Hep. B: Wis. -1, Mo. -1, Fla. -2, Tex. -1; Hep. A: Fla. -5, Tex. +1, Guam +2; Hep. unsp.: Mo. -6, Ariz. -1; Malaria: N.J. -1.

**Table III-Continued**  
**Cases of Specified Notifiable Diseases: United States**  
**Weeks Ending April 8, 1978 and April 9, 1977 - 14th Week**

REPORTING AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS TOTAL			MUMPS		PERTUSSIS		RUBELLA		TETANUS
	CUMULATIVE		1978	CUMULATIVE		1978	CUM. 1978	1978	1978	CUM. 1978	CUM. 1978	CUM. 1978	
	1978	1977†		1978	1977†								
UNITED STATES . . . . .	848	7,697	20,955	65	760	626	423	5,660	23	429	3,642	10	
NEW ENGLAND . . . . .	131	701	998	3	41	32	66	368	-	48	204	-	
Maine . . . . .	118	446	3	-	4	2	50	266	-	22	93	-	
New Hampshire . . . . .	-	10	297	-	6	3	-	5	-	10	42	-	
Vermont . . . . .	-	5	221	-	1	3	-	3	-	-	-	-	
Massachusetts* . . . . .	12	97	217	3	10	8	2	36	-	4	44	-	
Rhode Island . . . . .	-	4	6	-	9	-	1	10	-	-	1	-	
Connecticut . . . . .	1	139	254	-	11	16	3	48	-	12	24	-	
MIDDLE ATLANTIC . . . . .	40	570	2,596	8	103	83	6	242	2	78	657	-	
Upstate New York . . . . .	37	408	749	3	38	22	3	79	1	6	72	-	
New York City . . . . .	2	85	109	3	28	16	-	69	1	-	20	-	
New Jersey . . . . .	1	8	72	2	20	23	3	52	-	72	458	-	
Pennsylvania . . . . .	NA	69	1,666	-	17	22	NA	42	NA	NA	107	-	
EAST NORTH CENTRAL . . . . .	270	2,822	4,920	5	67	62	180	2,047	6	129	1,267	1	
Ohio . . . . .	29	178	278	-	15	25	5	218	6	1	66	-	
Indiana . . . . .	5	51	2,386	-	12	3	7	108	-	10	72	1	
Illinois . . . . .	19	329	486	-	4	14	71	665	-	11	91	-	
Michigan . . . . .	172	1,816	539	3	30	14	60	664	-	61	714	-	
Wisconsin* . . . . .	45	448	1,231	2	6	6	37	392	-	46	324	-	
WEST NORTH CENTRAL . . . . .	9	76	3,911	2	27	37	50	1,135	-	13	115	1	
Minnesota . . . . .	-	12	577	-	4	15	-	11	-	-	8	-	
Iowa . . . . .	-	10	2,178	-	1	4	12	78	-	-	14	-	
Missouri* . . . . .	2	4	446	2	15	13	6	641	-	3	28	-	
North Dakota . . . . .	4	20	5	-	-	1	-	4	-	-	2	-	
South Dakota . . . . .	-	-	10	-	2	4	-	4	-	-	16	-	
Nebraska* . . . . .	-	1	85	-	-	3	9	-	-	-	-	-	
Kansas . . . . .	3	29	610	-	5	-	39	388	-	10	47	1	
SOUTH ATLANTIC . . . . .	263	2,004	1,194	12	213	129	28	309	5	74	406	2	
Delaware . . . . .	-	4	18	3	3	1	2	21	-	-	2	-	
Maryland . . . . .	-	1	122	-	8	9	2	40	-	1	2	1	
District of Columbia . . . . .	-	-	2	-	1	-	-	-	-	-	1	-	
Virginia . . . . .	172	1,387	680	2	30	7	3	52	1	17	138	-	
West Virginia . . . . .	79	347	49	-	5	9	17	68	-	7	126	-	
North Carolina . . . . .	-	40	18	2	45	35	2	33	-	16	78	-	
South Carolina . . . . .	-	126	92	-	15	10	-	10	-	-	5	-	
Georgia . . . . .	-	5	204	-	27	23	1	9	4	-	1	-	
Florida* . . . . .	12	94	9	5	79	36	1	76	-	33	53	1	
EAST SOUTH CENTRAL . . . . .	71	595	437	6	64	63	21	449	1	4	111	1	
Kentucky . . . . .	4	56	111	-	11	17	-	78	1	2	35	1	
Tennessee . . . . .	60	444	275	1	20	16	1	220	-	2	57	-	
Alabama . . . . .	-	1	40	2	17	21	19	135	-	-	4	-	
Mississippi . . . . .	7	94	11	3	16	9	1	16	-	-	15	-	
WEST SOUTH CENTRAL . . . . .	29	526	1,145	12	106	135	34	649	1	28	335	5	
Arkansas . . . . .	-	1	19	-	10	8	2	106	1	-	4	1	
Louisiana . . . . .	10	259	55	7	34	61	6	36	-	20	195	1	
Oklahoma . . . . .	-	8	41	1	9	3	-	4	-	1	4	-	
Texas* . . . . .	19	258	1,030	4	53	63	26	503	-	7	132	3	
MOUNTAIN . . . . .	9	86	1,447	2	13	12	6	100	-	8	64	-	
Montana . . . . .	7	62	696	-	1	2	-	7	-	1	8	-	
Idaho . . . . .	-	1	28	-	1	1	-	16	-	-	3	-	
Wyoming . . . . .	-	-	1	-	-	-	-	-	-	-	-	-	
Colorado . . . . .	-	11	318	-	2	1	2	30	-	2	12	-	
New Mexico* . . . . .	-	-	196	-	2	2	-	7	-	-	2	-	
Arizona . . . . .	1	6	160	-	3	5	1	3	-	4	23	-	
Utah . . . . .	-	1	5	2	3	-	3	35	-	1	15	-	
Nevada . . . . .	1	5	43	-	1	1	-	2	-	-	1	-	
PACIFIC . . . . .	26	317	4,307	16	126	73	22	361	8	47	483	-	
Washington* . . . . .	-	32	245	2	19	11	3	105	-	-	56	-	
Oregon . . . . .	5	82	88	-	4	7	-	35	3	2	37	-	
California . . . . .	21	197	3,913	13	98	41	13	204	5	45	388	-	
Alaska* . . . . .	-	1	55	1	4	13	-	4	-	-	1	-	
Hawaii . . . . .	-	5	6	-	1	1	6	13	-	-	1	-	
Guam . . . . .	NA	1	3	-	-	-	NA	1	NA	NA	-	-	
Puerto Rico . . . . .	4	67	270	-	-	-	19	366	1	2	6	1	
Virgin Islands . . . . .	-	6	6	-	-	-	-	1	-	-	1	-	

NA: Not available

†Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals.

\*The following delayed reports will be reflected in next week's cumulative totals: Measles: Mass. -4, Fla. -2, Tex. -1; Men. inf.: Fla. -1, Wash. +1; Mumps: Wis. +2, Mo. +41, Fla. +1; Pertussis: Mo. +1, N. Mex. -1, Alaska -1; Rubella: Mo. +4, Nebr. +4, Fla. -2.

**Table III-Continued**  
**Cases of Specified Notifiable Diseases: United States**  
**Weeks Ending April 8, 1978 and April 9, 1977 - 14th Week**

REPORTING AREA	TUBERCULOSIS		TULA-REMIA	TYPHOID FEVER		TYPHUS-FEVER TICK-BORNE (RMFS)		VENERAL DISEASES (Civilian Cases Only)						RABIES IN ANIMALS	
	1978	CUM. 1978		1978	CUM. 1978	1978	CUM. 1978	1978	GONORHEA		SYPHILIS (Pri. & Sec.)		1978	CUMULATIVE	CUM. 1978
								1978	1977†	1978	1977†	1978	1977		
UNITED STATES .....	572	7,406	17	11	113	2	13	18,998	244,543	248,243	388	5,399	5,788	673	
NEW ENGLAND .....	31	245	-	-	29	-	-	443	6,159	6,543	11	177	205	33	
Maine .....	3	17	-	-	-	-	-	30	440	552	-	3	7	32	
New Hampshire .....	-	7	-	-	5	-	-	18	294	240	-	1	-	-	
Vermont .....	1	11	-	-	-	-	-	10	156	161	-	-	3	-	
Massachusetts .....	24	142	-	-	15	-	-	170	2,736	2,854	9	118	151	1	
Rhode Island .....	1	16	-	-	4	-	-	32	409	464	2	6	2	-	
Connecticut .....	2	52	-	-	5	-	-	183	2,124	2,272	-	49	42	-	
MIDDLE ATLANTIC .....	118	1,307	1	-	13	-	4	1,478	26,620	27,518	60	715	839	13	
Upstate New York .....	20	168	1	-	3	-	2	382	4,287	3,920	8	50	71	13	
New York City .....	57	543	-	-	7	-	-	704	10,791	12,416	47	503	525	-	
New Jersey* .....	41	334	-	-	1	-	-	392	4,928	4,224	5	82	113	-	
Pennsylvania .....	NA	262	-	NA	2	NA	2	NA	6,614	6,958	NA	80	130	-	
EAST NORTH CENTRAL .....	64	1,048	-	-	5	-	-	3,375	34,608	37,303	31	538	682	24	
Ohio .....	10	193	-	-	1	-	-	735	9,051	9,536	11	105	175	3	
Indiana .....	5	146	-	-	-	-	-	417	3,737	3,291	4	32	40	3	
Illinois .....	30	384	-	-	1	-	-	1,305	10,265	12,620	8	334	371	1	
Michigan .....	15	276	-	-	3	-	-	661	8,257	8,329	7	52	69	-	
Wisconsin* .....	4	49	-	-	-	-	-	257	3,298	3,527	1	15	27	17	
WEST NORTH CENTRAL .....	15	234	7	-	4	-	-	834	12,039	12,911	8	126	133	183	
Minnesota .....	1	49	-	-	-	-	-	129	2,272	2,266	6	53	42	63	
Iowa .....	4	32	-	-	2	-	-	83	1,444	1,557	-	11	10	39	
Missouri* .....	7	80	6	-	2	-	-	372	4,635	5,429	2	33	45	24	
North Dakota .....	-	14	-	-	-	-	-	8	276	214	-	2	2	29	
South Dakota .....	-	27	-	-	-	-	-	25	455	341	-	1	1	18	
Nebraska .....	2	3	-	-	-	-	-	38	913	1,047	-	3	15	1	
Kansas* .....	3	29	1	-	-	-	-	179	2,044	2,057	-	23	18	9	
SOUTH ATLANTIC .....	110	1,648	2	3	9	2	6	4,887	58,884	59,449	110	1,477	1,659	67	
Delaware* .....	2	10	-	-	-	-	-	45	947	715	-	3	12	-	
Maryland* .....	17	295	1	1	1	-	-	638	7,854	7,441	14	111	113	-	
District of Columbia .....	5	90	-	-	-	-	-	274	3,799	4,005	8	125	174	-	
Virginia .....	17	186	-	1	2	-	-	294	5,314	6,209	4	128	163	1	
West Virginia* .....	1	65	-	-	-	-	-	69	899	802	-	4	1	1	
North Carolina* .....	22	270	-	-	-	-	-	730	7,856	8,964	18	127	237	-	
South Carolina .....	8	132	-	-	-	-	-	2	606	5,641	5,505	2	65	78	6
Georgia* .....	12	196	-	1	1	-	-	1	591	11,044	11,186	34	358	305	49
Florida .....	26	404	1	-	5	-	-	1,640	15,530	14,622	30	556	576	10	
EAST SOUTH CENTRAL .....	49	721	3	-	1	-	1	1,926	20,913	21,182	14	246	194	33	
Kentucky .....	13	162	-	-	1	-	-	153	2,336	2,976	2	27	20	22	
Tennessee .....	22	215	3	-	-	-	1	578	7,740	8,357	1	86	55	7	
Alabama .....	14	170	-	-	-	-	-	788	6,222	5,931	8	37	38	4	
Mississippi .....	-	174	-	-	-	-	-	407	4,615	3,918	3	96	81	-	
WEST SOUTHWEST CENTRAL .....	57	819	3	2	6	-	1	2,506	34,546	32,043	48	821	703	199	
Arkansas .....	10	88	3	-	-	-	-	288	2,740	2,561	2	30	18	33	
Louisiana* .....	4	162	-	-	-	-	-	525	5,718	4,189	2	166	141	5	
Oklahoma .....	4	100	-	-	-	-	-	207	3,039	2,906	-	28	19	53	
Texas .....	39	469	-	2	6	-	1	1,486	23,049	22,387	44	597	525	108	
MOUNTAIN .....	26	214	-	-	9	-	-	696	9,186	10,167	2	111	114	5	
Montana .....	1	18	-	-	-	-	-	57	573	524	-	6	-	-	
Idaho .....	-	10	-	-	5	-	-	19	311	497	-	3	-	-	
Wyoming .....	-	4	-	-	-	-	-	24	219	300	-	3	2	-	
Colorado .....	5	10	-	-	2	-	-	208	2,535	2,614	1	34	34	-	
New Mexico .....	7	42	-	-	-	-	-	101	1,267	1,518	-	31	24	4	
Arizona* .....	8	101	-	-	-	-	-	177	2,351	2,829	-	23	45	1	
Utah .....	-	9	-	-	1	-	-	33	555	584	-	3	4	-	
Nevada .....	5	20	-	-	1	-	-	77	1,375	1,301	1	11	2	-	
PACIFIC .....	102	1,170	1	6	37	-	1	2,953	41,588	41,127	104	1,188	1,259	116	
Washington* .....	NA	34	-	-	1	-	-	347	2,976	3,059	NA	26	50	-	
Oregon .....	5	51	-	-	1	-	-	222	2,933	3,000	3	35	43	-	
California .....	76	907	1	6	35	-	1	2,168	33,576	32,865	131	1,110	1,149	114	
Alaska .....	-	16	-	-	-	-	-	61	1,298	1,349	-	5	6	2	
Hawaii .....	?1	162	-	-	-	-	-	55	805	854	-	12	11	-	
Guam* .....	NA	14	-	NA	-	NA	-	NA	36	83	NA	-	1	-	
Puerto Rico .....	6	120	-	-	-	-	-	40	707	841	13	119	169	5	
Virgin Islands .....	-	1	-	-	-	-	-	4	59	39	-	4	1	-	

NA: Not available.

\*Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals.

\*\*The following delayed reports will be reflected in next week's cumulative totals: TB: Mo. -1, Kans. -1, Md. -1, N.C. -2, Ariz. +4, Guam +1; Typhoid fever: Ga. +1; GC: N.J. +60 mil., Wis. -1 civ., La. -42 civ., Guam +3; Syphilis: La. -1, Wash. +23; An rabies: Del. +1, W. Va. -1.

**Table IV**  
**Deaths in 121 United States Cities\***  
**Week Ending April 8, 1978 — 14th Week**

REPORTING AREA	ALL CAUSES					Pneumonia and Influenza ALL AGES	REPORTING AREA	ALL CAUSES					Pneumonia and Influenza ALL AGES
	ALL AGES	65 Years and Over	45-64 Years	25-44 Years	Under 1 Year			ALL AGES	65 Years and Over	45-64 Years	25-44 Years	Under 1 Year	
NEW ENGLAND .....	618	394	163	31	19	36	SOUTH ATLANTIC .....	1,165	649	329	86	66	47
Boston, Mass. ....	179	96	59	13	8	9	Atlanta, Ga. ....	104	61	26	5	9	5
Bridgeport, Conn. ....	54	30	19	1	2	1	Baltimore, Md. ....	282	147	89	25	16	3
Cambridge, Mass. ....	11	7	3	1	—	2	Charlotte, N. C. ....	64	31	20	4	5	4
Fair Haven, Mass. ....	24	17	7	—	—	—	Jacksonville, Fla. ....	78	36	31	3	5	6
Hartford, Conn. ....	50	36	12	2	—	1	Miami, Fla. ....	56	28	21	4	1	1
Lowell, Mass. ....	23	16	4	—	2	3	Norfolk, Va. ....	52	22	18	2	5	1
Lynn, Mass. ....	22	14	7	—	—	—	Richmond, Va. ....	70	47	19	3	—	6
New Bedford, Mass. ....	16	12	2	—	—	3	Savannah, Ga. ....	24	14	3	5	2	2
New Haven, Conn. ....	38	25	7	4	1	1	St. Petersburg, Fla. ....	99	79	14	4	1	6
Providence, R.I. ....	69	42	19	4	4	5	Tampa, Fla. ....	86	53	17	8	3	8
Somerville, Mass. ....	15	12	2	1	—	3	Washington, D. C. ....	181	87	54	18	20	4
Springfield, Mass. ....	39	26	10	1	2	1	Wilmington, Del. ....	69	44	17	5	—	1
Waterbury, Conn. ....	23	22	1	—	—	3							
Worcester, Mass. ....	55	39	11	4	—	4							
MIDDLE ATLANTIC ...	2,866	1,848	693	181	79	123	EAST SOUTH CENTRAL .....	669	378	196	45	28	44
Albany, N. Y. ....	59	34	18	2	5	3	Birmingham, Ala. ....	106	62	28	6	5	4
Allentown, Pa. ....	16	12	3	1	—	1	Chattanooga, Tenn. ....	59	31	20	2	4	11
Buffalo, N. Y. ....	64	44	15	2	2	4	Knoxville, Tenn. ....	47	33	10	1	2	1
Camden, N. J. ....	42	31	7	3	1	1	Louisville, Ky. ....	100	49	38	6	4	9
Elizabeth, N. J. ....	27	22	5	—	—	2	Memphis, Tenn. ....	155	88	47	13	2	6
Erie, Pa. ....	40	28	12	—	—	1	Mobile, Ala. ....	79	53	14	7	3	5
Jersey City, N. J. ....	46	28	14	—	2	1	Montgomery, Ala. ....	43	23	11	7	—	3
Newark, N. J. ....	52	22	18	6	6	1	Nashville, Tenn. ....	80	39	28	3	8	5
New York City, N. Y. ....	1,392	904	320	102	33	57	WEST SOUTH CENTRAL .....	1,134	655	294	81	46	29
Paterson, N. J. ....	41	23	11	4	1	6	Austin, Tex. ....	43	23	11	3	3	4
Philadelphia, Pa. ....	504	313	142	25	11	17	Baton Rouge, La. ....	40	25	7	2	1	2
Pittsburgh, Pa. ....	174	101	53	10	6	9	Corpus Christi, Tex. ....	39	26	7	5	—	1
Reading, Pa. ....	30	19	1	8	—	2	Dallas, Tex. ....	157	100	39	13	4	3
Rochester, N. Y. ....	103	76	17	3	5	4	El Paso, Tex. ....	40	22	11	1	4	1
Schenectady, N. Y. ....	26	21	3	2	—	1	Fort Worth, Tex. ....	74	46	19	6	2	1
Scranton, Pa. ....	44	30	11	2	—	2	Houston, Tex. ....	195	107	52	20	6	1
Syracuse, N. Y. ....	98	63	20	5	4	2	Little Rock, Ark. ....	70	32	20	6	7	3
Trenton, N. J. ....	50	37	9	3	1	3	New Orleans, La. ....	149	89	44	6	6	—
Utica, N. Y. ....	25	17	6	1	1	1	San Antonio, Tex. ....	173	86	45	14	11	4
Yonkers, N. Y. ....	33	23	8	1	1	5	Shreveport, La. ....	67	40	21	2	2	—
							Tulsa, Okla. ....	87	59	18	5	—	9
EAST NORTH CENTRAL .....	2,187	1,273	649	140	66	65	MOUNTAIN .....	529	314	123	40	22	18
Akron, Ohio ....	58	38	15	3	1	—	Albuquerque, N. Mex. ....	58	32	14	6	1	6
Canton, Ohio ....	37	22	13	2	—	3	Colorado Springs, Colo. ....	31	23	4	—	—	1
Chicago, Ill. ....	541	287	164	49	24	17	Denver, Colo. ....	126	68	37	11	2	2
Cincinnati, Ohio ....	154	96	46	4	6	4	Las Vegas, Nev. ....	19	12	7	—	—	1
Cleveland, Ohio ....	129	77	39	9	3	2	Ogden, Utah ....	15	8	6	—	—	2
Columbus, Ohio ....	89	53	26	5	2	1	Phoenix, Ariz. ....	119	73	21	8	13	2
Dayton, Ohio ....	94	49	34	9	—	1	Pueblo, Colo. ....	23	14	4	3	—	2
Detroit, Mich. ....	300	164	92	25	8	5	Salt Lake City, Utah ....	54	31	11	4	5	1
Evansville, Ind. ....	46	29	11	2	2	2	Tucson, Ariz. ....	84	53	19	8	1	1
Fort Wayne, Ind. ....	43	28	11	2	2	2							
Gary, Ind. ....	21	8	11	—	—	—							
Grand Rapids, Mich. ....	60	46	11	1	1	9							
Indianapolis, Ind. ....	149	83	41	12	5	1							
Madison, Wis. ....	30	21	5	3	—	3							
Milwaukee, Wis. ....	139	91	41	5	—	3							
Peoria, Ill. ....	45	24	16	4	—	3							
Rockford, Ill. ....	52	32	12	1	5	3							
South Bend, Ind. ....	37	21	11	—	4	2							
Toledo, Ohio ....	110	71	33	3	1	4							
Youngstown, Ohio ....	53	33	17	1	2	—							
WEST NORTH CENTRAL .....	710	474	143	37	31	24	PACIFIC .....	1,613	1,033	358	111	61	58
Des Moines, Iowa ....	59	43	9	5	2	—	Berkeley, Calif. ....	24	17	4	3	—	—
Duluth, Minn. ....	24	15	7	—	1	1	Fresno, Calif. ....	58	41	12	—	3	2
Kansas City, Kans. ....	43	27	11	2	1	2	Glendale, Calif. ....	22	17	4	1	—	—
Kansas City, Mo. ....	116	75	25	7	4	7	Honolulu, Hawaii ....	61	37	13	6	5	—
Lincoln, Nebr. ....	40	28	9	1	—	2	Long Beach, Calif. ....	93	52	30	7	3	2
Minneapolis, Minn. ....	77	58	13	1	3	1	Los Angeles, Calif. ....	514	331	114	39	11	19
Omaha, Nebr. ....	78	58	11	4	2	1	Oakland, Calif. ....	98	57	20	12	3	10
St. Louis, Mo. ....	160	89	42	12	13	6	Pasadena, Calif. ....	29	16	10	1	2	1
St. Paul, Minn. ....	69	54	8	1	2	—	Portland, Oreg. ....	105	69	19	6	10	1
Wichita, Kans. ....	44	27	8	4	3	4	Sacramento, Calif. ....	58	33	16	2	2	1
							San Diego, Calif. ....	125	74	34	8	6	3
							San Francisco, Calif. ....	142	92	30	14	1	1
							San Jose, Calif. ....	52	43	7	1	—	1
							Seattle, Wash. ....	145	89	26	9	14	9
							Spokane, Wash. ....	56	40	15	—	1	7
							Tacoma, Wash. ....	31	25	4	2	—	2
TOTAL .....								11,491	7,018	2,948	752	418	474
Expected Number .....								11,530	7,104	2,966	693	418	468

\*By place of occurrence and week of filing certificate. Excludes fetal deaths.

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The editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Send reports to: Center for Disease Control, Attn.: Editor, Morbidity and Mortality Weekly Report, Atlanta, Georgia 30333.

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**Burn Injuries – continued**

of death were: multiple sclerosis [25.46], cancer [16.60], diabetes [13.52], and heart disease [12.14].) In New York, over 10,000 years of life were found to be lost annually due to burn injuries.

Burn injuries occurred twice as frequently in males as in females. The rate of occurrence in the black population was almost 3 times that of whites.

In comparison to other trauma or disease, burn injuries have a disproportionately greater impact on the medical care system. The study showed the average hospital stay of all burn patients was 16 days. The average stay in specialized burn units was 22 days; average stays for other trauma patients was 8 days.

The study found that about 15% of all burn patients hospitalized annually are likely candidates for intensive burn care. Costs of specialized burn care are high. The annual cost of providing intensive burn care in New York was estimated at \$8,500,000. This is \$140,000 per year per bed, or \$11,260 per patient. Projecting on a population basis to the entire United States, total costs would be nearly \$100 million.

Whereas hot liquids are the most common hazard associated with burn hospitalization, this hazard is rarely the cause of death. Conversely, conflagrations are the leading cause of burn death but cause a relatively small number of hospitalized injuries. Clothing catching on fire is an important source of both morbidity and mortality (Tables 1 and 2).

*Reported by MS Baptiste, MS, G Feck, MPA, Burn Injury Control Program, New York State Dept of Health; and Environmental Health Services Div, Bur of State Services, CDC.*

**Editorial Note:** This study showed that severe burn injuries occur with relative infrequency, although the impact of those burns is so substantial that their importance is greater than would be suggested by frequency alone. Although appearance of burn patients is often altered, psychological damage is especially frequent.

In addition to these aspects, burn injury presents one of the most difficult problems of treatment in medicine. This has resulted in the development of specialized burn-treatment facilities. Capital and operating costs of these are even higher than for other specialty treatment facilities, however, because of the long hospital stays and high staff-to-patient ratios required for burn patients.

TABLE 1.Ten most frequently occurring primary environmental hazards of hospitalized burn injuries, upstate New York 1974-1975

Hazards	Number	Percent
1. Hot liquid, vapor, or steam	1,654	28.6
2. Clothing	583	10.1
3. Gasoline	367	6.3
4. Automobiles	354	6.1
5. Chemicals	342	5.9
6. Grease, cooking oil	305	5.3
7. Conflagrations	213	3.7
8. Stoves and ovens	192	3.3
9. Natural or liquid propane gas	78	1.3
10. Furnaces	68	1.2
Other	1,376	23.8
Not stated	259	4.5
<b>Total</b>	<b>5,791</b>	<b>100.1</b>

TABLE 2. Causes of burn mortality,\* upstate New York, 1974-1976

Cause	Number	Percent
Fire — private dwelling	594	71.0
Ignition of clothing	49	5.9
Fire — other building or structure, not private dwelling	25	3.0
Ignition of flammable material — not clothing	13	1.6
Hot substance, corrosive liquid, steam	10	1.2
Controlled fire — private dwelling	9	1.1
Fire — not in building or structure	8	1.0
Other — not fire or flame	15	1.8
Other fire or flame	114	13.6
<b>Total</b>	<b>837</b>	<b>100.2</b>

\*determined from death certificates

### Epidemiologic Notes and Reports

#### Childhood Leukemia — Rutherford, New Jersey

A cluster of childhood leukemia cases has been reported in an elementary school in Rutherford, New Jersey. State and local health officials have reported that of the 7 childhood leukemia cases known to have had their onset between January 1974 and March 1978 in Rutherford, 5 are current or former students at the elementary school, 1 is a preschooler in that particular school district, and 1 has no known connection with the school.

The 7 children range in age from 3 to 17 years; 3 are males, and 4 are females. The cell types reported are: acute myelocytic leukemia (3), lymphocytic leukemia (2), myelocytic leukemia (1), and leukemia not otherwise specified (1). During the 5 school years, 1973-1977, 0.5 newly diagnosed cases of childhood leukemia would be expected among all Rutherford school children, grades K-12 (average yearly student population: 3,328). Consequently, the distribution of 5 cases in 1 elementary school is unusual.

State and local health departments are investigating to determine what genetic and/or environmental risk factors may be involved.

*Reported by HG McCafferty, BS, S Papenberg, BA, Borough of Rutherford; T Abe, MSW, R Altman, MD, State Epidemiologist, J Bill, RN, J Clark, BS, J Mulholland, BS, A Stenhausen, MPH, New Jersey State Dept of Health; Field Services Div and Cancer Br, Chronic Diseases Div, CDC.*

**Editorial Note:** Time-space clusters of cancer cases occur periodically; childhood leukemia cases have received particular attention. There is only faint evidence, however, that such clustering may occur more frequently than chance would predict (1). Observed clusters are difficult to associate with potential carcinogenic events because of the usually long and variable latent periods (2-20 years) associated with cancer. Despite these difficulties, selected case clusters deserve intensive investigation in an effort to develop clues about the causes of human cancer (2).

#### References

1. Caldwell GG, Heath CW Jr: Case clustering in cancer. *South Med J* 69:1598-1602, 1976
2. MMWR 25:77-78, 1976

International Notes

The following changes should be made in the "Supplement-Health Information for International Travel," MMWR Vol. 26, August 1977:

**ROMANIA**

Smallpox — Americas: Delete USA, Canada, Insert: All countries.

**Quarantine Measures****POLAND**

Smallpox — Delete note. Insert: A Certificate is required ALSO from travelers who within the preceding 14 days have been in: Africa: Ethiopia, Kenya, Somalia, Sudan.

A Certificate is required ALSO from travelers who within the preceding 14 days have been in a country any part of which is infected.

Current Trends**Primary and Secondary Syphilis — United States, February 1978**

Reported cases of primary and secondary syphilis numbered 1,701 in February 1978, a decrease of 7.7% over the 1,842 cases reported in February 1977 (provisional data — Table 3). Eighteen areas reported more cases in February 1978 than in February 1977, while 7 areas reported the same number of cases, and 34 areas reported fewer cases. The 3,243 cases of primary and secondary syphilis reported in the first 2 months (January—February) of 1978 repre-

sented a 10.1% decline from the number reported in the same period of 1977. Reported early latent (less than 1 year's duration) syphilis cases numbered 2,563 in January—February 1978, representing a decline in reported cases of 11.5% from the number reported during the same time period of 1977.

*Reported by the Venereal Disease Control Div, Bur of State Services, CDC.*

TABLE 3. Summary of reported primary and secondary syphilis cases by reporting area, February 1978 and February 1977 — Provisional Data

Reporting Area by HEW Regions	February		Calendar Year Cumulative January—February		Reporting Area by HEW Regions	February		Calendar Year Cumulative January—February		Reporting Area by HEW Regions	February		Calendar Year Cumulative January—February	
	1978	1977	1978	1977		1978	1977	1978	1977		1978	1977	1978	1977
Connecticut . . . . .	12	17	25	32	Illinois (Excl. Chicago) . . . . .	14	17	24	38	Arizona . . . . .	7	10	20	21
Maine . . . . .	1	4	1	6	Chicago . . . . .	100	64	214	156	California (Excl. LA & SF) . . . . .	188	144	332	305
Massachusetts . . . . .	29	42	54	84	Indiana (Excl. Indianapolis) . . . . .	1	10	2	11	Los Angeles* . . . . .	115	121	273	225
New Hampshire . . . . .	1	0	1	0	Indianapolis* . . . . .	4	4	8	8	San Francisco* . . . . .	62	85	107	65
Rhode Island . . . . .	1	2	2	3	Michigan . . . . .	13	23	34	45	Hawaii . . . . .	2	3	7	7
Vermont . . . . .	0	1	0	3	Minnesota . . . . .	13	13	23	25	Nevada . . . . .	4	1	7	7
REGION I TOTAL . . . . .	44	66	83	128	Ohio . . . . .	38	54	54	112	REGION IX TOTAL . . . . .	378	364	746	727
New Jersey . . . . .	23	24	50	63	Wisconsin . . . . .	5	7	11	16	Alaska . . . . .	3	3	4	4
New York (Excl. NYC) . . . . .	16	21	36	45	REGION V TOTAL . . . . .	168	192	370	411	Idaho . . . . .	0	0	0	2
New York City . . . . .	163	187	283	334	Arkansas . . . . .	14	8	24	11	Oregon . . . . .	12	13	16	29
REGION II TOTAL . . . . .	202	232	369	442	Louisiana . . . . .	51	49	104	103	Washington . . . . .	15	11	26	21
Delaware . . . . .	0	4	3	9	New Mexico . . . . .	7	6	17	14	REGION X TOTAL . . . . .	30	27	46	56
District of Columbia . . . . .	37	51	75	112	Oklahoma . . . . .	12	3	22	12	UNITED STATES TOTAL . . . . .	1,701	1,842	3,243	3,609
Maryland (Excl. Baltimore) . . . . .	11	15	32	31	Texas . . . . .	209	230	341	349	Puerto Rico . . . . .	58	52	83	106
Baltimore . . . . .	18	20	40	43	REGION VI TOTAL . . . . .	293	296	508	489	Virgin Islands . . . . .	2	3	4	4
Pennsylvania (Excl. Phila.) . . . . .	7	14	21	27	Iowa . . . . .	4	4	6	8	United States, Including Outlying Areas . . . . .	1,761	1,897	3,340	3,719
Philadelphia . . . . .	13	27	24	51	Kansas . . . . .	6	8	16	14					
Virginia . . . . .	43	49	83	91	Missouri . . . . .	10	9	19	22					
West Virginia . . . . .	1	1	1	1	Nebraska . . . . .	0	11	1	12					
REGION III TOTAL . . . . .	130	181	279	365	REGION VII TOTAL . . . . .	20	32	42	56					
Alabama . . . . .	7	9	18	19	Colorado . . . . .	12	9	22	24					
Florida . . . . .	153	187	308	377	Montana . . . . .	6	0	6	0					
Georgia (Excl. Atlanta) . . . . .	56	61	114	120	North Dakota . . . . .	0	1	0	1					
Atlanta* . . . . .	46	37	91	72	South Dakota . . . . .	0	1	1	1					
Kentucky . . . . .	11	7	14	13	Utah . . . . .	1	0	2	2					
Mississippi . . . . .	33	31	55	48	Wyoming . . . . .	0	0	3	2					
North Carolina . . . . .	39	81	80	177	REGION VIII TOTAL . . . . .	10	11	34	30					
South Carolina . . . . .	24	14	41	43										
Tennessee . . . . .	28	14	45	36										
REGION IV TOTAL . . . . .	397	441	766	905										

\*County Data

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